

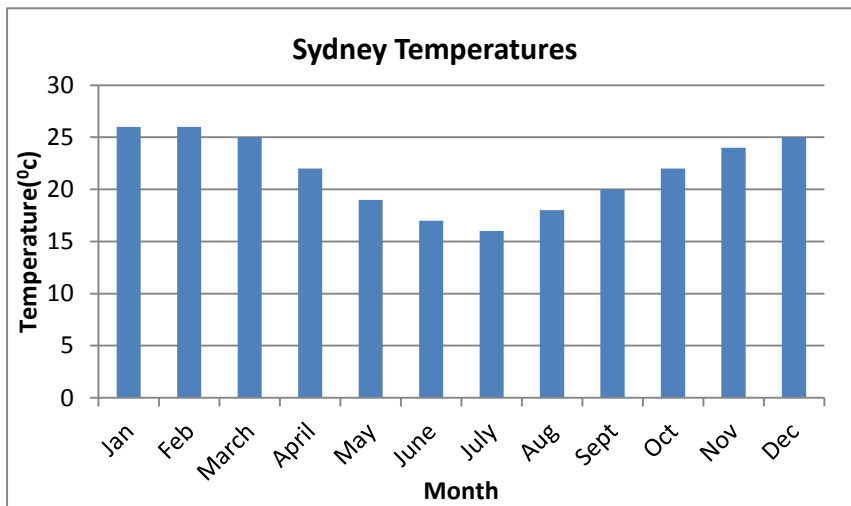
National 4 Homework 17

Questions 1,2, and 3 are Non Calculator

1. Calculate the probability that;
 - a) You roll a 1 on a normal die;
 - b) The day of the week begins with a 'T'.
 - c) You pull a red King from a pack of cards.



2. The mean monthly temperatures for Sydney are shown by this bar graph.



- a) What was the mean temperature in December?
- b) What was the difference between the mean temperatures in December and March?
- c) In how many months was the mean temperature less than 20°C?

3. A ramp is built to provide easy access to a new health centre. The ramp is 40cm high, and its horizontal length is 1.2m. Ramps are only deemed safe if they have a gradient of less than 0.5.
Will this ramp pass? You must justify your answer.
4. Martin's wage (W) is based on his monthly sales. He receives a basic pay of £550 a month, plus £30 for every deal he completes (D).
 - a) Write down a formula for calculating Martin's wage (W) when you know the number of deals (D) he has completed,
 - b) How much does Martin earn in a month where he completes 15 deals?
 - c) One month Martin earns £1210. How many deals did he complete?
5. Calculate the area of each of these composite shapes.

